

List of papers

1. Peer-reviewed papers

- [1.1] H. Abe and S. Billey, Consequences of Lakshmibai-Sandhya Theorem: the ubiquity of permutation patterns in Schubert calculus and related geometry, to appear in *Advanced Studies in Pure Mathematics*.
- [1.2] H. Abe and T. Matsumura, “Schur polynomials and Weighted Grassmannians”, *J. Algebraic Combin.* **42**(3) (2015), pp 875-892.
- [1.3] H. Abe, “Young diagrams and intersection numbers for toric manifolds associated with Weyl chambers”, *Electron. J. Combin.* **22**(2) (2015), #P2.4.
- [1.4] H. Abe and T. Matsumura, “Equivariant cohomology of weighted Grassmannians and weighted Schubert classes”, *Int. Math. Res. Not.* **2015**(9), (2015) 2499-2524.
- [1.5] H. Abe, M. Harada, T. Horiguchi, and M. Masuda, “The equivariant cohomology rings of regular nilpotent Hessenberg varieties in Lie type A: Research Announcement”, *Morfismos* **18**, No. 2 (2014), pp. 51-65.
- [1.6] H. Abe, “A convexity theorem for three tangled Hamiltonian torus actions, and super-integrable systems”, *Differential Geom. Appl.* **31** (2013), 577-593.

2. Research reports

- [2.1] H. Abe, “ルート系から定まるトーリック多様体上の交叉数とヤング図”, *数理解析研究所講究録* (2014), 1922: 78-83.
- [2.2] H. Abe, “ルート系から定まるトーリック多様体のコホモロジー環とヤング図”, 第61回トポロジーシンポジウム講演集, 2014年7月.
- [2.3] H. Abe, “重み付きグラスマンのシューベルトカルキュラスと対称多項式”, *数理解析研究所講究録* (2014), 1876: 33-38.
- [2.4] H. Abe, “A convexity theorem for three tangled Hamiltonian torus actions”, *Trends in Mathematics - New Series*, Information Center for Mathematical Sciences, **12**, No. 1, 2010 (Toric Topology Workshop KAIST 2010), 115-119.

3. Preprints

- [3.1] H. Abe, M. Harada, T. Horiguchi, and M. Masuda, “The cohomology rings of regular nilpotent Hessenberg varieties in Lie type A”, arXiv:1512.09072.
- [3.2] H. Abe and P. Crooks, “Minimal nilpotent Hessenberg varieties”, arXiv:1510.02436.
- [3.3] H. Abe and T. Horiguchi, “The torus equivariant cohomology rings of Springer varieties”, arXiv:1404.1217.